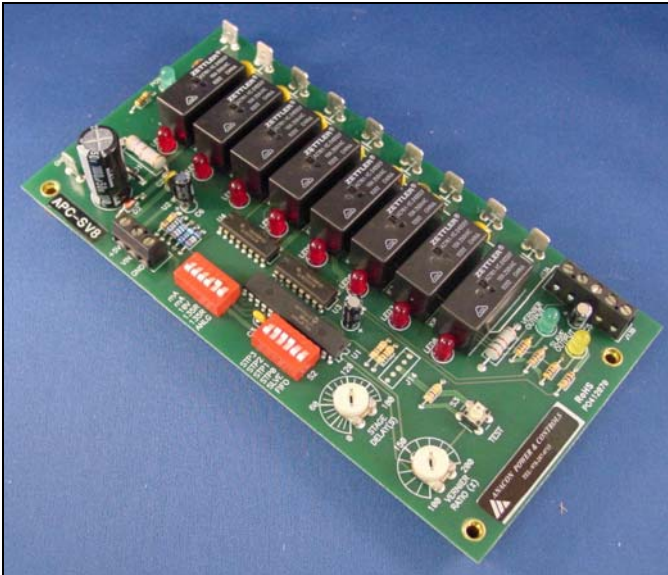




APC-SV4 and APC-SV8 Low Voltage Step / Vernier Controller



The APC-SV8 is a microcontroller-based step controller that provides precise modulation in multi-stage heater applications such as duct heaters. The built-in Vernier stage allows for smooth, precision control of the load without increasing switching wear.

Features:

- Utilizes Latest Microcontroller Technology
- RoHS Compliant
- Adjustable Stage Delay
- Pulsed or Analog Vernier output
- Adjustable Vernier ratio
- Expandable to 16 stages
- LIFO/FIFO selection
- Test Button
- Brown Out Protection
- Available in 4 or 8 stages

Specifications:

Power Input	-	24VAC -15/+10%50/60Hz < 4VA. (24VAC -5%/+10% when using 0-135Ohm input)
Brown Out Protection	-	Stages restart from zero upon loss of power.
Command Inputs	-	0-5V, 0-10V, 4-20mA, 0-135R. Selectable via dipswitch.
Stages	-	Selectable from 1 to 16 stages via dipswitch. More than 8 stages requires an additional unit setup for slave operation.
Stage Outputs	-	30 VAC @ 1.0A SPST Mechanical Relays w/MOV protection, up to a max of 5A total for all of the stages. Up to 8 stages per board.
Vernier Output	-	Current limited 24VDC Time Proportioned SSR drive or 0-5V Analog output for driving APCSCR control. Selectable via dipswitch # S1-6.
Slave Output	-	0-5V output for expanding beyond 8 stages.
Stage Output Modes	-	LIFO or FIFO Selectable via dipswitch.
Stage Delay	-	Adjustable from 0-180 seconds via potentiometer.
Vernier Ratio	-	Adjustable via potentiometer from 100 to 200%.
Stage Output Indication	-	Each Stage has a Red LED that is energized when the normally open relay output is closed.
Vernier Output Indication	-	Green LED that varies in intensity when analog mode is selected or blinks when time proportioning is selected.
Slave Output Indication	-	Yellow LED that varies in intensity when a slave output signal is present.
Test Button	-	Forces the command signal to 100% while pressed, thereby allowing test of all the stages at the selected stage delay rate.
I/O Connectors	-	0.250" Faston lugs for power and stage outputs, screw terminal blocks for low voltage I/O and command.
Ambient Temp. Range	-	0 to 80°C.
Board Specifications	-	7.075" x 2.700", RoHS compliant.
Shipping Weight	-	Approximately 1 lb.